In re Appln. No. 09/429,331

Page 150, line 22, after "...GTCAG" insert -- (SEQ ID NO:5) --; line 25, after "...GTCAG" insert -- (SEQ ID NO:6) --; line 28, after "...GTCAG" insert -- (SEQ ID NO:7) --; line 31, after "...GTCAG" insert -- (SEQ ID NO:8) --; line 33, after "...TCGAG" insert -- (SEQ ID NO:9) --. Page 162, line 33, after "...CAGT~3'" insert -- (SEQ ID NO:14) --; line 36, after "...TAGA-3'" insert -- (SEQ ID NO:15) --. Page 173, line 26, after "...SLLSR" insert -- (SEQ ID NO: 187) --. Page 183, line 6, after "SRLXXLL" insert -- (SEQ ID NO:2) --. Page 225, line 4, after "...KQAV" insert -- (SEQ ID NO:10) --; line 5, after "...GVSR" insert -- (SEQ ID NO:11) --; line 6, after "...MLSR" insert -- (SEQ ID NO:12) --; line 7, after "...YASR" insert

In re Appln. Nc 09/429,331

-- (SEQ ID NO:61) --.

--(SEQ ID NO:13)--.

Page 238, line 2, after "...GHSR" insert

--(SEQ ID NO:59)--;

line 3, after "...WRSR" insert

--(SEQ ID NO:60)--;

line 4, after "...KDSR" insert

Attached are copies of pages 239, 244-251, 266-268, 270, and 272 in which sequence identifiers are marked in red. Entry of these revisions is respectfully requested.

Please enter the enclosed "Sequence Listing", pages 1-79.

REMARKS

- Applicants hereby submit the following:
- [XX] a paper copy of a "Sequence Listing", complying
 with \$1.821(c), to be incorporated into the
 specification as directed above;
- [] an amendment to the paper copy of the "Sequence
 Listing" submitted on , the amendment being in
 the form of substitute sheets;

Mar-15-2002 11:56

[XX] the Sequence Listing in computer readable form, complying with \$1.821(e) and \$1.824, including, if an amendment to the paper copy is submitted, all previously submitted data with the amendment incorporated therein;

- [] pursuant to \$1.821(e), reference is made to the computer readable form filed on , in USSN , which presents the identical Sequence information, the use of which is now requested, in lieu of submitting a new computer readable form; and/or
- [] a substitute computer readable form to replace one found to be damaged or unreadable.
- [XX] 2. The description has been amended to comply with \$1.821(d).
- 3. The undersigned attorney or agent hereby states as follows:
 - (a) this submission is not believed to include new matter [\$1.821(g)];

- (b) the contents of the paper copy (as amended, if applicable) and the computer readable form of the Sequence Listing, are believed to be the same [\$1.821(f) and \$1.825(b)];
- (c) if the paper copy has been amended, the amendment is believed to be supported by the specification and is not believed to include new matter [\$1.825(a)]; and
- (d) if the computer readable form submitted herewith is a substitute for a form found upon receipt by the PTO to be damaged or unreadable, that the substitute data is believed to be identical to that originally filed [\$1.825(d)].

Respectfully submitted,

BROWDY AND NEIMARK

Attorneys for Applicant(s)

By:

Tver P. Copper

Registration No. 28,005

IPC:al 624 Ninth Street, N.W. Washington, D.C. 20001

Telephone No.: (202) 628-5197 Facsimile No.: (202) 737-3528 F:\,N\Nova\PaigeID\Pto\SequenceResponse.doc

239

Table 3: Phage/Peptide Classification

and isolation method E? + estradiol ER + estradiol #4 <u>Class 1</u> SSNHQSSRLIELLSR 62 #15 En + estradiol 63 SRLKELLLLPTDLSR SSKLYCLLDESYCSR #35 E? + estradiol 64 #41 ER + estradiol 65 HGPLTLNLLRSSGG #12 SRLEYWLKWEPGPSR

Class 2

ΞR SSCKWYEKCSGLWSR 67 #7 ER + estradiol #33 SSEYCFYWDSAHCSR 6. #31 Ξ3. ER + estradiol SSWVLLRDLPWGSR 69 #24 SSWVRLSDFPWGVSR 70 10

ER + estradiol Class 3 SSLTSRDFGSWYASR 71 #5

Class 4 15

ER SRTWESPLGTWEWSR 72 #13

Class 5

#48 ER SAACATISHYLMGG 73

. 25

8

present when present when peptide was identified Tamoxifen
The presence of presserved presserve of pres
Peptide Sequence Mon prefettide Sequence Mon prefettide Sequence Mon preserved SRNLCFFWDDEYCSR TESTWHETERWODEQSR SSCKWYEGEQVAGGSR SSKYVFGFQVAGGSR SSSWSYGKPTFLSSR SSSWSYGKGSR SSSWHSKURDKLRDFSR SSSWHSKWDLALGFSR 90 SSSMTSLYPHLKALCSR 97 SSSMTSLYPHLKALCSR 97 SSSMTTALRDRLAYSR 98 SSSTATALRDRLAYSR 98 SSGKTREHYREGTSR 98 SGKKTREHYREGTSR 98 SGKKTREHYREGTSR 98 SGKKTREHYREGTSR 98 SGKKTREHYREGTSR 98 SGKKTREHYREG
<u>rable 7: New Era</u> <u>peptide</u> name 1PT 2PT 2PT 3PT 4PT 10PT 11PT 12PT 13PT 18PT

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SERM present when peptide was identified	Estradiol Estradiol Estradiol ICI Tamoxifen Tamoxifen Raloxifen Raloxifen Buffer Buffer Buffer Buffer Buffer Estradiol
New ERA-ERE Peptide Sequence Information New ERA-ERE Peptide Sequence 360 New ERA-ERE Peptide Sequence 06 No. presence of receptor	HSHNIHFSPWLFRLIGG 101 HSHPHBHLIYKLMGG 101 HSHPLPPILISRLITGG 102 SRLTCLLQSWGWDSEQCSR 103 SRLTCLLQSWGWDSEQCSR 103 SRLTQLDWGTLIYSR 104 SRLPPSVFSWGGSEVCLISR 105 SRLPPSVFSWGGSEVCLISR 105 SRLPPSVFSWGGSEVCLISR 105 SSRPDAAFFGALSR 113 SSRPDAAFFGALSR 113 SSRPDAAFFGALSR 113 SSRPDAAFFGALSR 113 SSRPDAAFFGALSR 113 SSRPTABUFWRLEPSR 113 SSRPTABUFWRLEPSR 113 SSRPTABUFWRLEPSR 113 SSRPTABUFWRLEPSR 113 SSRPTABUFWRLESSR 113 SSRPTABUFWRLESSR 113 SSRPTABUFWRLESSR 113 SSRLPILTHLISLGSR 121 SRLBELLLPYPHPSR 113 SSRLPILTHLISLGSR 121 SRLBELLLPYPHPSR 113 SSRLPILTHLISTGSR 121 SRLBELLLPYPHPSR 113 SRLBELLLPYPHPSR 113 SRLBELLLPYPHPSR 113 SRLBELLLPYPHPSR 113 SSRLWQLLSSPIDSR 125 SRLBELLLPWRLSSP 125 SRLBGILLMRMLSESR 123 SRLBELLLMRMLSESR 123 SRLBGILLMRMLSESR 123 SRLBGILLMRMLSER 123 SRLBG
Table 8: New Pepti de name	E1-1 E1-3 E1-4 E1-7 I4-10 I2-1

10

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Estradiol Estradiol Estradiol Estradiol Estradiol Estradiol

σασσσ_{σσ} 540

SRSLIMDMLMSDDYVTVSR 128
SSRLIACELMYEDADVCSR 129
HSHSPLLMALLIAPPGG 130
SRLEYYLRIGTYESR 131
SSCLREILLYGACSR 131
SSRTAEDYCFFADDYWCSR 131
SSLRCYLSSSKVDQWACSR 131
SSLRCYLSSSKVDQWACSR 131
SSYKPHSLLEWHLLGGTSR 135

78 8E 15E 10E 13E 17E

72

SERM present when peptide was identified Anffer	Buffer	Buster Buster	Buster Buster	Buffer Buffer	Buffer Buffer	Buffer Buffer	Buffer	Buffer Buffer	Buffer Buffer
Informat Isok in the prese of recepte		<u>ව</u> ස ද		7 0	\$ 15 to 15 t	2 (A)		الا	155 157
9: New ERB-ERE Peptide Seguence Popuide Sequence Seq	SRLHCLLDSSYCSSR 136 SPI HCLLDSSYCSSR 137		SSSMMREFFERELSR 147 SSGLPPNFERMLKSR 147	., .	SRGGGECLGPWCLSR INT SSEACVGRWMLCEQLGVSR INT	SSQVWPGPWRLVESR 147 SSSLGPWRLSELESR 147			SSKLYCLLLEST COTTEN STATES 153 HSYSSHPLLSYLWGG 153
Table 9: New Poplide name	1B-β	2B-β 3B-β	4Β-β 5Β-β	68-5 78-3	8B-ft 9B-f	123-13 148-13	17B-β	19B-B 20B-B	21B-f) 23B-B

Buffer Tamoxifen
0 c a a a c a a a a a a a a a a a a a a
HSTDMGWLRPWRLLGG (SS SSVFTIMDGKVALSR (ST) SREWEDGFGGRWLSR (ST) SSWNSREFFLSQLSR (ST) SSARPWWLQFEGSSR (G) SSARPWWLQFEGSSR (G) SSARPWWLQFEGSSR (G) SSQEEWLLPWRLASR (G) SRLPPSYFSMCGSEVCLSR (G) SRQEFYVGGMLWPADCLSR (G) SRLPPSYFSMCGSEVCLSR (G) SRLPPSYFSMCGSEVCLSR (G) SRLPPSYFSMCGSEVCLSR (G) SRLPPSYFSMCGSEVCLSR (G) SSPGSREWFKDMLSR (G) SSPGLIRDCLGVWCLADTPPSR (T) SRLNGVFCHDSSDLWVCSR (T) SRLNGVFCHDSSDLWVCSR (T) SRLNGVFGHDSSDLWVCSR (T) SSRCLVFISFWLDGLMHGSR (T) SSRCLLWDLLIKDSR (T) SSRCLLWDLLIKDSR (T)
SSVFTIMDGKVALSR SSVFTIMDGKVALSR SREWEDGFGGRWLSR SSWASREFLSQLSR SSARPWWLQFEGSSR SSQEEWLLPWRLASR SSQEEWLLPWRLASR SSQEFYVGGMLWPADCL SSQEFWCGSEVCL SSQEFYVGGMLWPADCL SSQEEWLLPWRLASR SSQEFYVGGMLWPADCL SSQEEWLLPWRLASR SSQEEWLLPWRLASR SSQEEWLLPWRLASR SSQEEWLLPWRLASR SSQEEWLLPWRLASR SSQEEWLLPWRLASR SSQEEWLLPWRLASR SSGEEWLLPWRLASR SSGEEWFKDMLSF SSRCLASR SSGEEWFKDMLSF
25B-B 1T-B 2T-B 4T-B 5T-B 6T-B 10T-B 12T-B 13T-B 14T-B 15T-B 15T-B 15T-B 20T-B 22T-B 22T-B

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Estradiol

249

Estradio Estradiol Estradio Estradiol Estradiol Estradiol Estradio Estradiol Estradiol Estradiol Estradiol Estradiol Estradiol Estradiol Estradio Estradiol Estradiol Estradio Estradiol Estradiol Estradiol SSLQAGSWLMHYLRGGDSR 198 SSRCSSLLCEMLIQTKESR 197 SSLKCLLQSSPQKQPFCSR 1974 SSILERLLGGGSAETV I8Y SSGSSAGRLMMLLQDGVSR 188 SSAGLLEDMLRSRSR 196 SSRTLLEHYLLGGSR 195 SSDTRSRLYELLSSSYTSR 180 SSPTGHRLLESLLLNSNSR #3 SSHCHTRLCSLLTSR 190 SSLKCLLNSNFCSR 193 SRNLLCLLDQEACSR 192 SRLEDLĻRGDSKPQSR 182 SRSPILWHLLQDGSR 185 SREGLLMRLLIGDSR 189 SSRLLCLLDAGQCSR 191 SRDWRŞGFLYELLSR 179 SRLEELLRVGVLTSR 181 SSIKDFPNLISLLSR 187 SRLHDLLLRDESPSR 178 SSRTPILFSLLETSR 186 SRFIGILWDLLQGDSR 225-0 20E-β 21E-B 18E-B 19E-B 16E-9 17E-B 14E-B 155-1 13E-B 12E-0 11E-B

10E-B 9E-B 8E-β

7E-B 6E-B SE-B

Estradiol Estradiol Estradiol	Estradiol Estradiol	Estradiol Estradiol	Estradiol Estradiol	Estradiol Estradiol
E E E	a 6 . 6	ਾ ਦਾ ਨ	ි වැ. ස	2 2 2
SRPEGSSWLLHYLSR 149 SSRTLLEHYLLGGSR 200 SRWLDDHELLYSSR 201	SSRTLYCHLTSSNPEWCSR 202 SSTRLMCWLGSADTSHCSR 203	SSYDWQCPSWYCPAPPSSR 207 SSTTWRCPEWYCGSR 205	SSWDFRVPWWYNNSK 201 SSQWQAPWWYIDASR 201	SSRPSFTIPWWFDDPSRSR 209 SSYEIPKWALQWLSR 209

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24E-β 25E-β 26E-β 27E-β 29E-β 30E-β 31E-β 33E-β 34E-β

Table 10: Panel Peptides for Example 2

Alternative name parcuthesized. Modulator used to isolate peptide in brackets. β III, SSEACVGRWMLCEQLGVSR. (B3) [no modulator] (sea 13 μσ: 12)) α/β III, SSWDMHQFFWEGVSR (AB3) [4-OH lamoxifen] (SEG 10 NO: 213) alp iv, SRLPPSVFSMCGSEVCLSR (ABA) [same] (Seo 10 10:214) (SER 10 NO: 211) B 11, SSLDLSQFPMTASFLRESK (B2) [1719-extradiol] (1660 18 ran 220) B1, SREWEDGFGGRWLSR (B1) [4-Off tamoxifen] (Sen 10 not 219) (372 10 801) a III, SRTWESPLGTWEWSR (A3) [no modulator] (Less 12 por: 21 8) a 1, SSEYCFY WDSAIICSR (A1) [17fj-estradiol] (366 13 to 216) α II, SSLTSRDFGSWYASR (A2) [17β-cstradioJ] (SETSRDFGSWYASR (A2) α/β V, SSPGSREWFKDMLSR (ABS) [same] (SGQ 18 NO: 215) a/B 11, SAPRATISHYLMGG (AB2) [no modulator] alb 1, SSNHQSSRLIELLSR (AB1) [17\b-cstradiol]

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									2	266				SEG	2 15	; NO:	
	Table	10	0	s :	r A	G I	ı Li	s D		L E L M		K S D S	R R	22.	ر 3		-
5 ·	A	н	s f	S	S R S N S K R E	ន្ទន	L L L L R L	L N E N	L	L L L L L L L L L L L L L L L L L L L	MTGSW	EPGEGE	R R D V S F S	Y	S R S R S R	228 228 227	
10						8 8 8 8 8 8 8 8 8 8 8		E	Q L D L S I	Ļļ L L	R S R A R F V G L C	EPGDT	P T Q I I I I I I I I I I I I I I I I I I	T D S D		237	
15	.						R	TEKEYS	E C		E O	i p g r e s g f	LY	D C C D	SSRS	R 235 R 236 R 237 238 R 239 R 239	
2	0	;	s s	s n	н (S S	S R S R S R S R	LL	REEQQ WWW		Q S A S	s '		T .D	W S R S S V S	R 241 244 244	5
:	25			ç	S R S	S N S S A G R S	S F S K P	L L L L L L L L L L L L L L L L L L L	T	L L L	LAESLI	A G E E L	P S S S S E	R R R R R R R R R R	24° R 24° 25° 25°	6 247 9	
	30				S	S I		I P		RL	L S		G.	SR	25		
	B 35	,	S	src:	la				H R	Q L R L Y I Q I	L L	Q E	G K D	S	K 2	53 54	
			(ÇBP	ı			Q	LS LV	E !	L L	R H	G G A F	S I K		56 57	
	40			RI	P14()		Y L Q L		G S T L H L L Q L	LLILI	M Q K S K G G	HSKSSHN	Q A E S E A E Q K P	ASVHIEGO	158 159 260 261 262	
												,	_ 4 _	∽ ~	oac	tivat	or

SRC1a = human steroid receptor coactivator la,

CBP = mouse cAMP-responsive element (CREB)-binding
protien,

RIP 140 = human RIP140

Table 101	SED IBNO:
5	Class I ER4 SSNHQSRLIELLSR 247 D2 GSEPKSRLLELLSAPVTDV 280 D30 HPTHSSRLWELLMEATPTM 281 D11 VESGSSRLMQLLMANDLLT 282
	Class II
10	D47 HVYQHPLLLSLLSSEHESG 269 C33 HVEMHPLLMGLLMESQWGA 269 D14 QEAHGPLLWNLLSRSDTDW 270
	Class III F6 GHEPLTLLERLLMDDKQAV 271 D22 LPYEGSLLLKLLRAPVEEV 272 D48 SGWENSILYSLLSDRVSLD 273 D48 AHGESSLLAWLLSGEYSSA 274 D43 AHGESSLLAWLLSGEYSSA 275
15	D17 GVFCDS1LCQLLAGSDAPS 276 D41 HHNGHSILYGLLAGSDAPS 277 D26 LGERASLLDMLLRQENPAW 277 D40 SGWNESTLYRLLQADAFDV 218 D40 SGWNESTLYRLLQADAFDV 218
20	F4 PVGEPGLLWRLDSAFVER
	Misc. WEEHSQMLLHLLDTGEAVW6 283
ERβsp	#293 SSIKDFPNLISLLSR [87
25 GRIP-	NR1 DSKGQTKLLQLLTTKSDQM 16 NR2 LKEKHKILHQLLQDSSSPV 17 NR3 KKKENALLRYLLDKDDTKD 18
SRC-1	VSOTSHKLVKLLTTTAEQQ 19

		phage (I.	-bebri	7621
	-1 - CD	Sequence/Motif Aligned	. ່ ຕົ	Library
	Table 202A: Glar GD	Comjence/Motif Aligned	BUF	<u>E</u>
	TD		BUF	<u>-</u>
	<u>ID</u> 99		_	E.
		SRGELTTWYEFLSHGRP 24	BUF	<u>K</u>
	103	DELTWWEFISD 25	GTP	<u>.</u> .
5	107		GTP	<u>CMT</u>
•	361	ALMADEPINEDER	BUF	R Y PHD12
	388,391			, <u>Y</u>
	45	NLMTWYEYLADGERU		PHD12
	397,401,412	* DOI WTWOEFLY	202	N
	397,4017-2-	KTYSLYEFLEL 30		<u>N</u> <u>H</u>
JО	15r2,301,394	KIISDIE 31	BUF	· <u>n</u>
	380,381,140		-	
	16			
	360	SSADGIFWWEYAREAGE 33		
	101		GTP	
	-	LGRGTTDMPPWAWWS 37		
	375,123,125,247	NYTERPWVWYH 35	GDP	
15	3/5/123/12-1	NYTEREWAY 36	BUF	
	331,334	SSLYSMEPWKWYT 36	GTP	,
	37	SSLYSMEFARM KWWESDWFVNFG 37	GTP	
	387	EEGMDWFMRVVE38		·
	386			
	- - ·			

	coopi Giv	1 GTP-Specific Phage	_	•	
	Table 202B: Giu	<u> </u>	SEE ID	No:	
	(T-Peptides)		70	GTP	M
	370,377,378	SVLSSSEMCFGWACY SEMCFGWACY	39 40	GDP	PARO K
	244	FNEVCLGWQCY	41	GTP	7
5	366,G12 G33,G34	SSNARPCQGWHCYL	PSQSR	2 42	
	633,634	WDGGVWMGPAS 4	~	GTP	<u>K</u>
	353	MODELL BYCCVWLGP 4	Ψ.	\mathtt{GTP}	<u>X</u>
	408	<pre>crycGVWLGPEGNS</pre>	R 45		
	G22,G25	SSWDGGVWWGQYGSF	2 46		
10	G11,G26-29	SSNLDGCFTSGGVWSGCSR	47	GTP	<u>N</u>
	G9,G10 382	LGYDINGVWIG	48		
	302	ICDIIPWEESCSR	49	GTP	<u>P</u>
	384	ACGPAICPWDFMPQL	50	GTP	<u>PARO</u>
	413	ACOLILE TO			

Note: clone 244, which was identified in a screen for peptide which bound GDP:G-alpha, is suspected to having increased the affinity of the G-alpha for GTP through a conformational change.

	makin anace Gigl (SDP-Specific Phage				
	(D-Peptides)		ES IDAS	-		
		SRGPQLTWQEFLTGAASSR	গ	422	•	
	G4	MAATHUSEBOO	<u>52</u>	GDP	77	•
_	314	Srefvtwkeflgs	<i>5</i> 3	BUF	K	
5	73	SQLTWREFLFG	54	G⊅⊇	R	
	343	SSHLMTWHEFISD	55	GD5	H	
	217	. SRDGFETWAEFLGASGS	56	BUF		
•	93	SRLTWSEYLSEIDP	57	BUF	CML	•
	62	SRTVTWVDFLKET	<i>5</i> 7	GD5	D	
10	193	MSWYEFMTEESM	542	GDP	CMI	
	324	akhdlswyefiqlpi	284	GTP	V	
	400	SRLSWWEFLGASDCGTC	787		14C <w></w>	
	281	DLLSLKEFLAT	288	GTP	K	
_	359,161	SSPNLLTLEEFLS	287	GDÞ	L	
15	176	KTYSLYEFLEL	290	GTP	N	
	380,381,140	MSNRYTIYEFLNLHS	291	GTP	Y	
	409,24r2	LHWWEVLAEK	292.	GDP	CMT	
	320	SSPQPLLHWWENMTEPP	293		· KNK	
	230	SRAGESVHWWEVL	294	GDP	H	
20	213	RAGPSEHWWEYIATL	285	GDP	N	
	266	EMISWHQYLLSI)	enn 29 6	,	GDP	PARO
	237 126,128,133,242,	248 SSLRWDEFLMELGGGV	A 297	BUF	M	
		VPWWVWLAEGD	298	GTP	N	
^ C	379 196	SREIYWWDWLTDT	299	GD₽		_
25	117	FGSNMLDLPTFLDNL	300			O
	92	SRITFWELMLEGG	301			
	179	SRTPYEWLGYWGA	302	. GDP	L	
	1/3			- co.	×14	C15
	289	YDMCTWLEFLDGGEC	303			;CM
30		SPLCTWAEYLMEPSC	304			
30	273	TQWCTWAEFLSSTDC	305			
	272,282,6R2	SSDGCTWQEFLAGHGPC	30	GD!	. 14	
	2/2/202/011		30	• 00	P P	
	337,339	PFNNPPWMWWS				
	268	SSPTVHENLPPWLWWSP	30	-	_	
3		LIHVPPWAWYD	30 30		_	
3	329	GEDVPPWYWDF	31		-	4CW
	280	YSQVFGDAPVWAWYSSR	31		_	
	319	WTPSDWQWWRSK	31			VRO
	115	SSHWSSDSIFPGFWYSG	١ ح	J 51) L	
			-	(27	Q QC	
4	10 197	SRGGVDLDIGNSA	31 31		DP R	
•	347	EGEDYRTRIAN	٠	., G	<i>-</i> \	

SEQUENCE LISTING

<110> PAIGE, Lisa A.
 MCDONNELL, Donald P.
 CHANG, Ching Yu
 NORRIS, John
 HAMILTON, Paul T.
 FOWLKES, Dana M.
 BARNETT, Tom
 CHRISTIANSEN, Dale J.
 BUEHRER, Benjamin

<120> METHOD OF PREDICTING THE ABILITY OF COMPOUNDS TO MODULATE THE BIOLOGICAL ACTIVITY OF RECEPTORS

<130> PAIGE1D

<140> 09/429,331

<141> 1999~10-28

<150> PCT/US99/06664

<151> 1999-03-26

<150> 60/082,756

<151> 1998-04-23

<150> 60/099,656

<151> 1998-09-09

<150> 60/115,345

<151> 1999-01-08

<160> 315

<170> PatentIn Ver. 2.0

<210> 1

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
 peptide

<400> 1

Ser Ser Asn His Gln Ser Ser Arg Leu Ile Glu Leu Leu Ser Arg Ser 1 5 10 15

Gly Ser Gly Lys 20

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

<220> <223>	Description of Artificial Sequence: Arbitrary peptide	
	Xaa at positions 5 and 6 can be any amino acid residue	
<400> Ser A	2 rg Leu Leu Xaa Xaa Leu Leu 5	
<210><211><211><212><213>	23	
<400> gatct	3 Laggto acagtgacet geg	23
<210> <211> <212> <213>	→ 23	
<400> gatco	> 4 cgcagg_tcactgtgac_cta	23
<2103 <2113 <2123 <2133		
<220 <223	 Description of Artificial: Selected sequence from combinatorial library 	
<400 gact aaca	> 5 gtgcga attcggtcat gaaccattaa ctttattaga aagattatta atggatgata agctgt tetcgagcgt gtcag	60 85
<212	> 6 > 73 > DNA > Artificial Sequence	
<220 <223	Description of Artificial: Selected sequence from combinatorial library	
<400 gact tega)> 6 tgtgcga attotottot ttaacttota gagattttgg ttottggtat gettotagad agegtgt cag	60 73
<21	0> 7 1> 73 2> DNA	

<220> <223> Description of Ar combinatorial lib	tificial:	Selected s	equence fro	m	
<400> 7 gaetgtgega attetettet t tegagegtgt cag	:gggatatgc	atcaatttt	ttgggaaggt	gtttctagac	60 73
<210> 8 <211> 73 <212> DNA <213> Artificial Seque	nce		-		
<220> <223> Description of A combinatorial li	rtificial: brary	Selected s	sequence fro	om	
<400> 8 gactgtgcga attctcttct tcgagcgtgt cag	ccaggttc t a	gagaatggt1	t taaagata t	g ttatetagae	60 73
<210> 9 <211> 14 <212> DNA <213> Artificial Seque <220> <223> Description of A	artificial:	Selected	sequence fr	om	
combinatorial li <400> 9 ctgacacgct cgag	Drary				14
<pre><210> 10 <211> 19 <212> PRT <213> Artificial Seque <220></pre>			• • • • • • • • • • • • • • • • • • • •		
<223> Description of A peptide	Artificial	Sequence:A	rbitrary		
<400> 10 Gly His Glu Pro Leu Ti 1 5	hr Leu Leu	Glu Arg. Le 10	eu Leu Met A	Asp Asp Lys 15	
Gln Ala Val					
<210> 11 <211> 15 <212> PRT <213> Artificial Sequ	ence		·		
<220> <223> Description of peptide	Artificial	Sequence	Arbitrary		

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Ser Ser Trp Asp Met His Gln Phe Phe Trp Glu Gly Val Ser Arg
  <210> 12
  <211> 15
  <212> PRT
  <213> Artificial Sequence
- <223> Description of Artificial Sequence: Arbitrary
  <220>
        peptide
  <400> 12
  Ser Ser Pro Gly Ser Arg Glu Trp Phe Lys Asp Met Leu Ser Arg
  <210> 13
   <211> 15
   <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: Arbitrary
         peptide
   Ser Ser Leu Thr Ser Arg Asp Phe Gly Ser Trp Tyr Ala Ser Arg
                                         10
   <210> 14
   <211> 88
   <212> DNA
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: DNA encoding random
         peptide library of Ex. 101.1
    <220>
   <223> N at each occurrence is A, C, G or T; K at each
          occurrence is C or T
    <400> 14
    agtgtgtgcc tcgagannkn nknnknnknn knnknnkctg nnknnkctgc tgnnknnknn 60
    knnknnknnk nnktctagac tgtgcagt
    <210> 15
    <211> 15
    <212> DNA
    <213> Artificial Sequence
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<223> Description of Artificial Sequence: DNA complementing
<220>
      3' end of SEQ ID NO:14
                                                                 .15
<400> 15
actgcacagt ctaga
<210> 16
<211> 19
<212> PRT
<213> Homo sapiens
 Asp Ser Lys Gly Gln Thr Lys Leu Leu Gln Leu Leu Thr Thr Lys Ser
 Asp Gln Met
 <210> 17
 <211> 19
 <212> PRT
 <213> Homo sapiens
  Leu Lys Glu Lys His Lys Ile Leu His Gln Leu Leu Gln Asp Ser Ser
  Ser Pro Val
  <210> 18
  <211> 19
  <212> PRT
  <213> Homo sapiens
   Lys Lys Glu Asn Ala Leu Leu Arg Tyr Leu Leu Asp Lys Asp Asp
                     5
   Thr Lys Asp
   <210> 19
   <211> 19
   <212> PRT
   <213> Homo sapiens
    Tyr Ser Gln Thr Ser His Lys Leu Val Lys Leu Leu Thr Thr Thr
    Ala Glu Gln Gln
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<210> 24
<211> 17
<212> PRT
<213> Artificial Sequence
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     peptide
ser Arg Gly Glu Leu Thr Thr Trp Tyr Glu Phe Leu Ser His Gly Arg
 Pro
 <210> 25
 <211> 11
 <212> PRT
 <213> Artificial Sequence
 <220>
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       peptide
  <400> 25
 Asp Glu Leu Thr Trp Trp Glu Phe Ile Ser Asp
  <210> 26
  <211> 12
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 26
  Val Thr Trp Tyr Asp Phe Leu Met Glu Asp Thr Lys
   <210> 27
   <211> 11
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> Description of Artificial Sequence: Arbitrary
        peptide
   <400> 27
   Gly Leu Met Thr Trp Arg Glu Phe Leu Gln Glu
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<210> 28
<211> 15
<212> PRT
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Asn Leu Met Thr Trp Tyr Glu Tyr Leu Ala Asp Gly Glu Arg Leu
<400> 28
<210> 29
<211> 12
 <212> PRT
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 29
 Ala Asp Arg Leu Trp Thr Trp Gln Glu Phe Leu Tyr
                   5
 <210> 30
 <211> 11
 <212> PRT
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 30
 Lys Thr Tyr Ser Leu Tyr Glu Phe Leu Glu Leu
                    5
  <210> 31
  <211> 13
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  Ser Ser Gln Leu Leu Thr Leu His Glu Phe Leu Asn Ser
                                        10
  <210> 32
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<211> 15
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 32
 Ser Ser Arg Gly Glu Tyr Trp Trp Glu Phe Leu Gly Tyr Ser Arg
 <210> 33
 <211> 17
 <212> PRT
 <213> Artificial Sequence
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      peptide
 <400> 33
Ser Ser Ala Asp Gly Ile Phe Trp Trp Glu Tyr Ala Arg Glu Ala Gly
Glu
<210> 34
<211> 15
<212> PRT
<213> Artificial Sequence
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      peptide
<400> 34
Leu Gly Arg Gly Thr Thr Asp Met Pro Pro Trp Ala Trp Trp Ser
                                      10
<210> 35
<211> 11
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 35
Asn Tyr Thr Glu Arg Pro Trp Val Trp Tyr His
                                      10
<210> 36
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<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 36
Ser Ser Leu Tyr Ser Met Glu Pro Trp Lys Trp Tyr Thr
                                    10
                5
<210> 37
<211> 12
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 37
 Lys Trp Trp Glu Ser Asp Trp Phe Val Asn Phe Gly
          5
 <210> 38
 <211> 12
 <212> PRT
 <213> Artificial Sequence
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       peptide
 <400> 38
 Glu Glu Gly Met Asp Trp Phe Met Arg Val Val Glu
                   5
 <210> 39
 <211> 15
 <212> PRT
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 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 39
 Ser Val Leu Ser Ser Ser Glu Met Cys Phe Gly Trp Ala Cys Tyr
                                       10
                    5
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  <210> 40
  <211> 10
  <212> PRT
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 40
Ser Glu Met Cys Phe Gly Trp Ala Cys Tyr
<210> 41
<211> 11
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 41
Phe Asn Glu Val Cys Leu Gly Trp Gln Cys Tyr
<210> 42
<211> 19
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 42
Ser Ser Asn Ala Arg Pro Cys Gln Gly Trp His Cys Tyr Leu Pro Ser
Gln Ser Arg
 <210> 43
 <211> 11
 <212> PRT
 <213> Artificial Sequence
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       peptide
 <400> 43
 Trp Asp Gly Gly Val Trp Met Gly Pro Ala Ser
 <210> 44
 <211> 15
 <212> PRT
 <213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 44
Met Gly Asp Ser Val Leu Pro Tyr Gly Gly Val Trp Leu Gly Pro
<210> 45
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 45
Ser Arg Tyr Gly Gly Val Trp Leu Gly Pro Glu Gly Asn Ser Arg
<210> 46
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 46
Ser Ser Trp Asp Gly Gly Val Trp Trp Gly Gln Tyr Gly Ser Arg
<210> 47
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 47
Ser Ser Asn Leu Asp Gly Cys Phe Thr Ser Gly Gly Val Trp Ser Gly
Cys Ser Arg
<210> 48
<211> 11
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 48
Leu Gly Tyr Asp Ile Asn Gly Val Trp Ile Gly
<210> 49
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
<400> 49
Ile Cys Asp Ile Ile Pro Trp Glu Glu Ser Cys Ser Arg
                . 5
<210> 50
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 50
Ala Cys Gly Pro Ala Ile Cys Pro Trp Asp Phe Met Pro Gln Leu
                                      10
<210> 51
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400>.51
Ser Arg Gly Pro Gln Leu Thr Trp Gln Glu Phe Leu Thr Gly Ala Ala
Ser Ser Arg
<210> 52
<211> 11
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 52
Asn Val Val Thr Trp Trp Glu Phe Leu Gly Pro
<210> 53
<211> 13
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 53
Ser Arg Glu Phe Val Thr Trp Lys Glu Phe Leu Gly Ser
                  5
<210> 54
<211> 11
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 54
Ser Gln Leu Thr Trp Arg Glu Phe Leu Phe Gly
<210> 55
<211> 13
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 55
Ser Ser His Leu Met Thr Trp His Glu Phe Ile Ser Asp
<210> 56
<211> 17
<212> PRT
<213> Artificial Sequence
ベ220ン
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<223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 56
  Ser Arg Asp Gly Phe Glu Thr Trp Ala Glu Phe Leu Gly Ala Ser Gly
Ser
  <210> 57
  <211> 14
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: Arbitrary
  <400> 57
  Ser Arg Leu Thr Trp Ser Glu Tyr Leu Ser Glu Ile Asp Pro
  <210> 58
  <211> 13
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 58
  Ser Arg Thr Val Thr Trp Val Asp Phe Leu Lys Glu Thr
  <210> 59
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 59
  Ser Ser Lys Tyr Ser Tyr Ser Arg Ser Ser Glu Gly His Ser Arg
  <210> 60
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <220>
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<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 60
Ser Ser Tyr Gln Trp Glu Thr His Ser Asp Lys Trp Arg Ser Arg
<210> 61
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 61
Ser Ser Val Thr Lys Lys Ala Leu Thr Ile Ala Lys Asp Ser Arg
<210> 62
<211> 15
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 62
Ser Ser Asn His Gln Ser Ser Arg Leu Ile Glu Leu Leu Ser Arg
                                     10
<210> 63
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 63
Ser Arg Leu Lys Glu Leu Leu Leu Pro Thr Asp Leu Ser Arg
                  5
<210> 64
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
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<400> 64
Ser Ser Lys Leu Tyr Cys Leu Leu Asp Glu Ser Tyr Cys Ser Arg
                  5
<210> 65
<211> 14
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 65
His Gly Pro Leu Thr Leu Asn Leu Leu Arg Ser Ser Gly Gly
                  5
<210> 66
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 66
Ser Arg Leu Glu Tyr Trp Leu Lys Trp Glu Pro Gly Pro Ser Arg
<210> 67
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 67
Ser Ser Cys Lys Trp Tyr Glu Lys Cys Ser Gly Leu Trp Ser Arg
<210> 68
<211> 15
<212> PRT
<213> Artificial Sequence
<220>.
<223> Description of Artificial Sequence: Arbitrary
      peptide
₹400> 58
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Ser Ser Glu Tyr Cys Phe Tyr Trp Asp Ser Ala His Cys Ser Arg
 <210> 69
<211> 14
 <212> PRT
 <213> Artificial Sequence
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       peptide
 <400> 69
 Ser Ser Trp Val Leu Leu Arg Asp Leu Pro Trp Gly Ser Arg
                                       1.0
 <210> 70
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Arbitrary
     peptide
 <400> 70
 Ser Ser Trp Val Arg Leu Ser Asp Phe Pro Trp Gly Val Ser Arg
 <210> 71
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 71
 Ser Ser Leu Thr Ser Arg Asp Phe Gly Ser Trp Tyr Ala Ser Arg
                                       10
 <210> 72
 <211> 15
 <212> PRT
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 72
 Ser Arg Thr Trp Glu Ser Pro Leu Gly Thr Trp Glu Trp Ser Arg
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<210> 73
 <211> 14
 <212> PRT
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 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 73
- Ser Ala Ala Cys Ala Thr Ile Ser His Tyr Leu Met Gly Gly
                    5
 <210> 74
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 74
 Ser Arg Asn Leu Cys Phe Phe Trp Asp Asp Glu Tyr Cys Ser Arg
                                       10
 <210> 75
 <211> 14
 <212> PRT
 <213> Artificial Sequence
 <220>
  <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 75
 Ser Trp Asp Met His Gln Phe Phe Trp Glu Gly Val Ser Arg
  <210> 76
  <211> 15
  <212> PRT
 <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 76
  Ser Arg Trp His Gly Thr Leu Phe Trp Gln Asp Glu Gln Ser Arg
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<210> 77
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 77
Ser Ser Cys Lys Trp Tyr Glu Lys Cys Ser Gly Leu Trp Ser Arg
<210> 78
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 78
Ser Ser Arg Met Gly His Val Trp Tyr Asp Trp Thr Phe Ser Arg
<210> 79
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 79
Ser Ser Arg Leu Leu Gly Asp Phe Gly Gly Ser Val Val Ser Arg
<210> 80
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 80
Ser Ser Lys Tyr Val Phe Gly Phe Gln Val Ala Gly Gly Ser Arg
<210> 81
<211> 15
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<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
<400> 81
Ser Ser Trp Ala Gly Ile Lys Phe Gly Lys Pro Pro His Ser Arg
<210> 82
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 82
Ser Ser Ser Trp Ser Tyr Gly Lys Pro Thr Phe Leu Ser Ser Arg
                                      10
<210> 83
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 83
Ser Arg Asp Thr Gly Asp Met Trp Trp Gly Arg Gly Gly Ser Arg
                                      10
<210> 84
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 84
Ser Ser Gly Arg Tyr Asp Pro Phe Val Leu Asn Ala Ala Ser Arg
                   5
<210> 85
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 85
Ser Ser Ser Pro Trp Trp Ser Phe Asn Leu Arg Asp Met Ser Arg
                                      10
<210> 86
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
<400> 86
Ser Ser Trp Pro Tyr Leu Pro Lys Arg Glu Glu Trp Ala Ser Arg
<210> 87
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 87
Ser Ser Gly Trp Ile Glu Gln Lys Leu Arg Gly Ser Phe Ser Arg
<210> 88
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 88
Ser Ser Ser Ala Thr Ser Ile Lys Val Gln Tyr Gln Ile Ser Arg
<210> 89
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
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<223> Description of Artificial Sequence: Arbitrary
       peptide
  <400> 89
  Ser Ser Tyr Leu Thr Leu Gly Lys Ser Met Met Ala Ile Ser Arg
                    5
  <210> 90
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 90
  Ser Ser Trp His Ser Arg Trp Asp Leu Ala Leu Gly Phe Ser Arg
  <210> 91
  <211> 15
  <212> PRT
  <213> Artificial Sequence
   <223> Description of Artificial Sequence: Arbitrary
        peptide
   <400> 91
  Ser Ser Gly Tyr Trp Gly Gly Trp Asp Tyr Gly Ala Gly Ser Arg
    1
   <210> 92
   <211> 15
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: Arbitrary
         peptide
   <400> 92
   Ser Arg Asp Asn Cys Gly Ala Gly Leu Trp Ala Gly Cys Ser Arg
   <210> 93
  · <211> 15
   <212> PRT
   <213> Artificial Sequence
   <220>
   <223> Description of Artificial Sequence: Arbitrary
         peptide
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<400> 93
Ser Ser Ser Thr Pro Gly Trp Trp Glu Trp Asp Trp Ala Ser Arg
                  5
                                     10
<210> 94
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 94
Ser Ser Tyr Trp Asp Gly Ser Trp Arg Arg Lys Glu Thr Cys Val Ser
Cys Ser Arg
<210> 95
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
Ser Ser Arg Thr Ala Glu Asp Tyr Cys Phe Phe Ala Asp Asp Tyr Trp
Cys Ser Arg
<210> 96
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 96
Ser Ser Arg Ala Leu Ala Leu Phe Pro Val Gly Met Glu Ser Arg
                                      10
<210> 97
<211> 19
<212> PRT
<213> Artificial Sequence
```

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<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 97
Ser Ser Asp Cys Glu Ser Leu Thr Ser Tyr Pro His Leu Lys Ala Leu
Cys Ser Arg
<210> 98
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 98
Ser Ser Thr Ala Thr Ala Leu Arg Asp Arg Leu Ala Tyr Ser Arg
                   5
                                      10
  1
<210> 99
<211> 15
<212> PRT
<213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 99
 Ser Ser Gly Lys Thr Arg Glu His Tyr Arg Glu Gly Thr Ser Arg
 <210> 100
 <211> 16
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 100
 His Ser His Ash His His Ser Pro Trp Leu Phe Arg Leu Leu Gly Gly
                                       10
                   5
 <210> 101
 <211> 16
 <212> PRT
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 101
His Ser His Pro His His Ser His Leu Leu Tyr Lys Leu Met Gly Gly
                                      10
                   5
<210> 102
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 102
His Ser His Pro Leu Pro Pro Leu Leu Ser Arg Leu Leu Thr Gly Gly
                   5 .
  1
<210> 103
<211> 19
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 Ser Arg Leu Thr Cys Leu Leu Gln Ser Asn Gly Trp Asp Ser Glu Gln
 Cys Ser Arg
 <210> 104
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 104
 Ser Ser Leu Thr Ser Arg Asp Phe Gly Ser Trp Tyr Ala Ser Arg
 <210> 105
<211> 14
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<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 105
Ser Arg Thr Leu Gln Leu Asp Trp Gly Thr Leu Tyr Ser Arg
<210> 106
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 106
Ser Arg Leu Pro Pro Ser Val Phe Ser Met Cys Gly Ser Glu Val Cys
Leu Ser Arg
<210> 107
<211> 28
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
Ser Arg Phe Glu Ile Trp Lys Pro Glu Pro Gly Cys Val Ser Ser Leu
Glu Asn Trp Glu Pro Gly Lys Arg Val Cys Ser Arg
<210> 108
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
    peptide
<400> 108
Ser Arg Val Phe Gly Val Ser Gly Gly Glu Val Val Leu Ile Asn Gly
```

```
Ser Ser Arg
```

```
<210> 109
```

<211> 19

<212> PRT

<213> Artificial Sequence

<220N

<223> Description of Artificial Sequence:Arbitrary
 peptide

<400> 109

Ser Arg Leu Cys Phe Gly Asp Trp Cys Met Leu Gly Gly Val Asp Val 1 5 15

Leu Ser Arg

<210> 110

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
 peptide

<400> 110

Ser Ser Leu Asn Met Val Val Asp Thr Pro Trp Cys Gly Lys Trp Val

Cys Ser Arg

<210> 111

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
 peptide

<400> 111

Ser Ser Arg Pro Asp Ala Ala Phe Phe Gly Ala Lys Leu Ser Arg
1 5 10 15

<210> 112

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Arbitrary
     peptide
Ser Ser Arg Pro Ser Pro Ser Phe Trp Glu Lys Gln Leu Ser Arg
                                      10
<210> 113
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 113
Ser Ser Arg Pro Thr Ala Glu Trp Phe Arg Glu Asn Leu Ser Arg
<210> 114
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 114
Ser Arg Trp Trp Asp Thr Ser Trp Trp Leu Glu Glu Leu Ser Arg
<210> 115
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
Ser Ser Arg Ile Ala Asp Leu Phe Trp Arg Leu Glu Pro Ser Arg
<210> 116
<211> 15
<212> PRT
<213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
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peptide
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```
<400> 116
Ser Arg Ser Tyr His Gly Glu Trp Gly Val Trp Thr Leu Ser Arg
15
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<210> 117

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
 peptide

<400> 117

Ser Ser Asp Trp Cys Phe Gly Trp Gly Gly Trp Cys Ala Ser Glu Ala 1 5 10 15

Val Ser Arg

<210> 118

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
 peptide

<400> 118

Ser Arg Asn Trp Asp Trp Ala Ala Leu Glu Leu Leu Pro Tyr Pro His 1 5 10 15

Pro Ser Arg

<210> 119

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
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<400> 119

Ser Ser Leu Thr Ser Arg Asp Phe Gly Ser Trp Tyr Ala Ser Arg
1 5 10 15

<210> 120

<211> 15

<212> PRT

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<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 120
Ser Arg Ser Pro Ile Leu Thr His Leu Leu Ser Leu Gly Ser Arg
                  5
                                      10
<210> 121
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
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<400> 121
Ser Ser Thr Gly Ile Leu Trp Lys Leu Leu Thr Ala Glu Ser Arg
                                      10
<210> 122
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
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<400> 122
Ser Ser His Gly Ile Leu Trp Arg Leu Leu Ser Glu Gly Ser Arg
<210> 123
<211> 15
<212> PRT
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<400> 123
Ser Arg Ser Asp Ser Ile Leu Trp Arg Met Leu Ser Glu Ser Arg
                                      10
<210> 124
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 124
Ser Arg Leu Val Ala Leu Leu Lys Ser Pro Trp Ser Val Ser Arg
                  5
  1
<210> 125
<211> 15
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 125
Ser Arg Leu Glu Glu Leu Leu Met Asp Phe Trp Arg Ser Arg
                   5
<210> 126
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 126
Ser Ser Lys Leu Trp Gln Leu Leu Ser Ser Pro Ile Asp Ser Arg
 <210> 127
 <211> 15
 <212> PRT
 <213> Artificial Sequence
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 Ser Ser Lys Leu Tyr Cys Leu Leu Asp Glu Ser Tyr Cys Ser Arg
 <210> 128
 <211> 19
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
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peptide
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<400> 128

Ser Arg Ser Leu Leu Met Asp Met Leu Met Ser Asp Asp Tyr Val Thr

Val Ser Arg

<210> 129

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Arbitrary peptide

<400> 129

Ser Ser Arg Leu Leu Ala Cys Glu Leu Met Tyr Glu Asp Ala Asp Val

Cys Ser Arg

<210> 130

<211> 16

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Arbitrary peptide

His Ser His Ser Pro Leu Leu Met Ala Leu Leu Ala Pro Pro Gly Gly 10 5

<210> 131

<211> 15

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Arbitrary peptide

Ser Arg Leu Glu Tyr Tyr Leu Arg Leu Gly Thr Tyr Glu Ser Arg 10

<210> 132

<211> 15 <212> PRT

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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
·<400> 132
Ser Ser Cys Leu Arg Glu Ile Leu Leu Tyr Gly Ala Cys Ser Arg
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                                      10
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<210> 133
<211> 19
<212> PRT
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Ser Ser Arg Thr Ala Glu Asp Tyr Cys Phe Phe Ala Asp Asp Tyr Trp
Cys Ser Arg
<210> 134
<211> 19
 <212> PRT
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      peptide
 <400> 134
 Ser Ser Leu Arg Cys Tyr Leu Ser Ser Ser Lys Val Asp Gln Trp Ala
 Cys Ser Arg
 <210> 135
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     peptide
 <400> 135
 Ser Ser Tyr Lys Pro His Ser Leu Leu Glu Trp His Leu Leu Gly Gly
                                       10
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Thr Ser Arg
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<210> 136
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<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
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<400> 136

Ser Arg Leu His Cys Leu Leu Asp Ser Ser Tyr Cys Ser Ser Arg 1 5 10 15

<210> 137

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
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<400> 137

Ser Arg Leu His Cys Leu Leu Asp Ser Ser Tyr Cys Ser Ser Arg

<210> 138

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
peptide

<400> 138

Ser Ser Trp Pro Asn Pro Thr Phe Trp Glu Arg Gln Leu Ser Arg
1 5 10 15

<210> 139

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Arbitrary
 peptide

<400> 139

Ser Tyr Ser Lys Glu Trp Phe Glu Glu Arg Leu Asn Ser Arg

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<210> 140
<211> 15
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
<400> 140
Ser Ser Ser Met Met Arg Glu Phe Phe Glu Arg Glu Leu Ser Arg
<210> 141
<211> 15
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 141
Ser Ser Gly Leu Pro Pro Asn Phe Glu Arg Met Leu Lys Ser Arg
<210> 142
<211> 15
<212> PRT
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      peptide
<400> 142
Ser Ser Gly Pro Trp Leu Met His Tyr Leu Gly Gly Gly Ser Arg
<210> 143
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 143
Ser Ser Thr Ser Trp Leu His His Tyr Leu Met Gly Thr Ser Arg
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                                                           15
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<210> 144
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<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 144
Ser Arg Gly Gly Gly Glu Cys Leu Gly Pro Trp Cys Leu Ser Arg
<210> 145
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<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 145
Ser Ser Glu Ala Cys Val Gly Arg Trp Met Leu Cys Glu Gln Leu Gly
                                      10
Val Ser Arg
<210> 146
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
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<400> 146
Ser Ser Gln Val Trp Pro Gly Pro Trp Arg Leu Val Glu Ser Arg
<210> 147
<211> 15
<212> PRT
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      peptide
 <400> 147
 Ser Ser Ser Leu Gly Pro Trp Arg Leu Ser Glu Leu Glu Ser Arg
                                       10
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<210> 148
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <220>
<223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 148
  Ser Ser Ser Gly Pro Trp Arg Trp Gly Leu Ser Ile Glu Ser Arg
                                                            15
                                        10
                    5
    ı
  <210> 149
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  Ser Arg Glu Cys Val Gly Gly Trp Cys Leu Ala Glu Leu Ser Arg
                                                             15
                                        10
  <210> 150
  <211> 15
  <212> PRT
  <213> Artificial Sequence
   <223> Description of Artificial Sequence: Arbitrary
        peptide
   Ser Ser Ile Pro Pro Arg Ser Trp Trp Leu Ser Gln Leu Ser Arg
   <210> 151
   <211> 15
   <212> PRT
   <213> Artificial Sequence
   <223> Description of Artificial Sequence: Arbitrary
         peptide
   Ser Ser Trp Pro Gly Ala Glu Trp Phe Lys Glu Gln Leu Ser Arg
                                         10
   <210> 152
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<211> 15
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 152
Ser Ser Lys Leu Tyr Cys Leu Leu Asp Glu Ser Tyr Cys Ser Arg
<210> 153
<211> 16
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 153
His Ser Tyr Ser Ser His Pro Leu Leu Leu Ser Tyr Leu Trp Gly Gly
                  5
                                      10
<210> 154
<211> 16
<212> PRT
<213> Artificial Sequence
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      peptide
His Ser Trp Leu Gly Pro Trp Arg Leu Ser Ser Ile. Asp Leu Gly Gly
<210> 155
<211> 16
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
His Ser Thr Asp Met Gly Trp Leu Arg Pro Trp Arg Leu Leu Gly Gly
                                      10
<210> 156
 <211> 15
 <212> PRT
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
<400> 156
Ser Ser Val Phe Thr Ile Met Asp Gly Lys Val Ala Leu Ser Arg
                                       10
<210> 157
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 157
Ser Arg Pro Tyr Cys Leu Gly Asp Val Trp Cys Leu Asp Ser Arg
<210> 158
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 158
Ser Arg Glu Trp Glu Asp Gly Phe Gly Gly Arg Trp Leu Ser Arg
                                      10
<210> 159
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 159
Ser Ser Trp Asn Ser Arg Glu Phe Phe Leu Ser Gln Leu Ser Arg
                                      10
<210> .160
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 160
Ser Ser Thr Thr Met Phe Asp Phe Phe Tyr Glu Arg Leu Ser Arg
<210> 161
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 161
Ser Ser Ala Arg Pro Trp Trp Leu Gln Phe Glu Gly Ser Ser Arg
                   5
<210> 162
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
Ser Ser Gln Glu Glu Trp Leu Leu Pro Trp Arg Leu Ala Ser Arg
                                      10
<210> 163
<211> 19
<212> PRT
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      peptide
 Ser Arg Leu Pro Pro Ser Val Phe Ser Met Cys Gly Ser Glu Val Cys
                   5
                                      10
Leu Ser Arg
 <210> 164
 <211> 19
 <212> PRT
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<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 164
Ser Ser Gly Pro Phe Tyr Val Gly Gly Met Leu Trp Pro Ala Asp Cys
Leu Ser Arg
<210> 165
<211> 15
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
      peptide '
<400> 165
Ser Arg Glu Gly Trp Met Gly Pro Trp Arg Leu Ala Asp Ser Arg
                                      10
<210> 166
<211> 15
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 166
Ser Arg Asn Glu Cys Ile Gly Pro Trp Cys Leu Thr Ile Ser Arg
                                      10
<210> 167
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 167
Ser Ser Pro Gly Ser Arg Glu Trp Phe Lys Asp Met Leu Ser Arg
                                      10
<210> 168
<211> 15
<212> PRT
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OMDY NEIM
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<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 168
Ser Ser Val Ala Ser Arg Glu Trp Trp Val Arg Glu Leu Ser Arg
                                      10
<210> 169
<211> 16
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
Ser Arg Met Phe Gln Val Cys Gly Asp Glu Val Cys Leu Arg Ser Arg
<210> 170
<211> 16
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 1.70
Ser Ser Asp Leu His Arg Asp Cys Leu Gly Val Trp Cys Leu Ser Arg
                  5
<210> 171
<211> 19
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 171
Ser Arg Leu Asn Gly Val Phe Cys His Asp Ser Ser Asp Leu Trp Val
                                      10
Cys Ser Arg
<210> 172
<211> 19
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<212> PRT
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 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 172
 Ser Arg Pro Gly Cys Leu Arg Gly Val Trp Cys Leu Ala Asp Thr Pro
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 Pro Ser Arg
 <210> 173
 <211> 19
 <212> PRT
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 <223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 173
 Ser Ser Arg Leu Val Pro His Ser Phe Trp Leu Asp Gly Leu Met His
                                       10
Gly Ser Arg
<210> 174
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 174
Ser Ser Ile Ser Thr Tyr His Met Gly Glu Trp Phe Tyr Ala Met Leu
                   5
                                      10
Ser Ser Arg
<210> 175
<211> 18
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
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<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 187
Ser Ser Ile Lys Asp Phe Pro Asn Leu Ile Ser Leu Leu Ser Arg
<210> 188
<211> 19
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary.
     peptide
<400> 188
Ser Ser Gly Ser Ser Ala Gly Arg Leu Met Met Leu Leu Gln Asp Gly
                                                          15
Val Ser Arg
<210> 189
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 189
Ser Arg Glu Gly Leu Leu Met Arg Leu Leu Ile Gly Asp Ser Arg
<210> 190
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 190
Ser Ser His Cys His Thr Arg Leu Cys Ser Leu Leu Thr Ser Arg
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                                      10
<210> .191
<211> 15
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 191
Ser Ser Arg Leu Cys Leu Leu Asp Ala Gly Gln Cys Ser Arg
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<210> 192
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 192
Ser Arg Asn Leu Leu Cys Leu Leu Asp Gln Glu Ala Cys Ser Arg
<210> 193
<211> 14
<212> PRT
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Ser Ser Leu Lys Cys Leu Leu Asn Ser Asn Phe Cys Ser Arg
                  5
<210> 194
<211> 19
<212> PRT
<213> Artificial Sequence
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     peptide
<400> 194
Ser Ser Leu Lys Cys Leu Leu Gln Ser Ser Pro Gln Lys Gln Pro Phe
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Cys Ser Arg
<210> 195
<211> 15
<212> PRT
<213> Artificial Sequence
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<220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 195
Ser Ser Arg Thr Leu Leu Glu His Tyr Leu Leu Gly Gly Ser Arg
<210> 196
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 196
Ser Ser Ala Gly Leu Leu Glu Asp Met Leu Arg Ser Arg Ser Arg
<210> 197
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 197
Ser Ser Arg Cys Ser Ser Leu Leu Cys Glu Met Leu Ile Gln Thr Lys
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Glu Ser Arg
<210> 198
<211> 19
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 198
Ser Ser Leu Gln Ala Gly Ser Trp Leu Met His Tyr Leu Arg Gly Gly
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Asp Ser Arg
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<210> 199
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 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 199
 Ser Arg Pro Glu Gly Ser Ser Trp Leu Leu His Tyr Leu Ser Arg
<210> 200
 <211> 15
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<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 200
Ser Ser Arg Thr Leu Leu Glu His Tyr Leu Leu Gly Gly Ser Arg
                   5
<210> 201
<211> 16
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 201
Ser Arg Trp Trp Leu Asp Asp His Glu Leu Leu Leu Tyr Ser Ser Arg
  1
                  5
<210> 202
<211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 202
Ser Ser Arg Thr Leu Tyr Cys His Leu Thr Ser Ser Asn Pro Glu Trp
                  5
                                      10
Cys Ser Arg
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<210> 203
 <211> 19
 <212> PRT
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 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 203
 Ser Ser Thr Arg Leu Met Cys Trp Leu Gly Ser Ala Asp Thr Ser His
                                       10
Cys Ser Arg
<210> 204
 <211> 19
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
       peptide
<400> 204
Ser Ser Tyr Asp Trp Gln Cys Pro Ser Trp Tyr Cys Pro Ala Pro Pro
  1
                                       10
Ser Ser Arg
<210> 205
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 205
Ser Ser Thr Thr Trp Arg Cys Pro Glu Trp Tyr Cys Gly Ser Arg
                                      10
<210> 206
<211> 15
<212> PRT
<213> Artificial Sequence
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     peptide
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<400> 206
Ser Ser Trp Asp Phe Arg Val Pro Trp Trp Tyr Asn Asn Ser Arg
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                                       10
<210> 207
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 207
Ser Ser Gln Trp Gln Ala Pro Trp Trp Tyr Ile Asp Ala Ser Arg
<210> 208
<211> 19
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 208
Ser Ser Arg Pro Ser Phe Thr Ile Pro Trp Trp Phe Asp Asp Pro Ser
                                      10
Arg Ser Arg
<210> 209
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 209
Ser Ser Tyr Glu Ile Pro Lys Trp Ala Leu Gln Trp Leu Ser Arg
                  5
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<210> 210
<211> 19
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
     peptide
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Ser Ser Leu Asp Leu Ser Gln Phe Pro Met Thr Ala Ser Phe Leu Arg
<400> 210
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                  5
Glu Ser Arg
<210> 211
<211> 15
<212> PRT
<213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 211
 Ser Ser Asn His Gln Ser Ser Arg Leu Ile Glu Leu Leu Ser Arg
                   5
 <210> 212
 <211> 14
 <212> PRT
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: Arbitrary
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  <400> 212
 Ser Ala Pro Arg Ala Thr Ile Ser His Tyr Leu Met Gly Gly
                    5
  <210> 213
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  Ser Ser Trp Asp Met His Gln Phe Phe Trp Glu Gly Val Ser Arg
                                    10
                     5
  <210> 214
  <211> 19
  <212> PRT
  <213> Artificial Sequence
  <223> Description of Artificial Sequence: Arbitrary
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peptide
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Ser Arg Leu Pro Pro Ser Val Phe Ser Met Cys Gly Ser Glu Val Cys
<400> 214
               5
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Leu Ser Arg

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<210> 215
<211> 15
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<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Arbitrary peptide

<400> 215 Ser Ser Pro Gly Ser Arg Glu Trp Phe Lys Asp Met Leu Ser Arg 10 5

<210> 216

<211> 15

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Arbitrary peptide

<400> 216

Ser Ser Glu Tyr Cys Phe Tyr Trp Asp Ser Ala His Cys Ser Arg 15

<210> 217

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Arbitrary peptide

<400> 217

Ser Ser Leu Thr Ser Arg Asp Phe Gly Ser Trp Tyr Ala Ser Arg

<210> 218

<211>. 15

<212> PRT

<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 218
Ser Arg Thr Trp Glu Ser Pro Leu Gly Thr Trp Glu Trp Ser Arg
<210> 219
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 219
 Ser Arg Glu Trp Glu Asp Gly Phe Gly Gly Arg Trp Leu Ser Arg
 <210> 220
 <211> 19
 <212> PRT
 <213> Artificial Sequence
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 <223> Description of Artificial Sequence: Arbitrary
       peptide
 Ser Ser Leu Asp Leu Ser Gln Phe Pro Met Thr Ala Ser Phe Leu Arg
 <400> 220
 Glu Ser Arg
  <210> 221
  <211> 19
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 221
  Ser Ser Glu Ala Cys Val Gly Arg Trp Met Leu Cys Glu Gln Leu Gly
                                        10
    1
  Val Ser Arg
  <210> 222
  <211> 15
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<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
Ser Arg Ala Gly Leu Leu Ser Asp Leu Leu Glu Gly Lys Ser Arg
                                      10
<210> 223
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 223
 Ser Ser Arg Ser Leu Leu Arg Asp Leu Leu Met Val Asp Ser Arg
 <210> 224
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 224
 Ser Ser Asn Lys Leu Leu Tyr Asn Leu Leu Lys Met Glu Ser Arg
                                        10
  <210> 225
  <211> 15
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 225
  Ser Ser Lys Ser Leu Leu Leu Asn Leu Leu Ser Thr Pro Ser Arg
                                                             15
                                        10
  <210> 226
  <211> 16
  <212> PRT
  <213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
<220>
     peptide
His Ser Phe Pro Arg Glu Ser Leu Leu Val Arg Leu Leu Gln Gly Gly
<210> 227
<211> 15
<212> PRT
<213> Artificial Sequence
<223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 227
 Ser Arg Leu Glu Met Leu Leu Arg Ser Glu Thr Asp Phe Ser Arg
 <210> 228
 <211> 15
 <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
       peptide
 <400> 228
 Ser Arg Leu Glu Glu Leu Leu Lys Trp Gly Ser Val Thr Ser Arg
                                      10
  1
 <210> 229
 <211> 15
  <212> PRT
 <213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
       peptide
  <400> 229
  Ser Arg Leu Glu Gln Leu Leu Lys Glu Glu Phe Ser Tyr Ser Arg
                                       10
  <210> 230
  <211>.15
  <212> PRT
  <213> Artificial Sequence
  <220>
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peptide

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<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 230
Ser Arg Leu Glu Gln Leu Leu Arg Ser Glu Pro Asp Phe Ser Arg
                                      10
                  5
<210> 231
<211> 15
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 231
Ser Arg Leu Glu Asp Leu Leu Arg Ala Pro Phe Thr Thr Ser Arg
                                      10
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 <400> 232
 Ser Arg Leu Glu Ser Leu Leu Arg Phe Gly Gln Leu Asp Ser Arg
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Ser Arg Leu Glu Glu Leu Leu Gly Thr Asn Arg Asp Ser Arg
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Ser Arg Leu Glu Glu Leu Leu Met Asp Phe Trp Arg Ser Arg
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 <400> 236
 Ser Arg Leu Lys Glu Leu Leu Leu Pro Thr Asp Leu Ser Arg
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 Ser Arg Leu Glu Cys Leu Leu Glu Gly Arg Leu Asn Cys Ser Arg
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                                      10
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     , peptide
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 <400> 244
 Ser Ser Lys Leu Trp Gln Leu Leu Ser Ser Pro Ile Asp Ser Arg
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  <213> Artificial Sequence
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        peptide
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Ser Ser Lys Thr Leu Trp Arg Leu Leu Glu Gly Glu Arg Ser Arg
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<400> 248
Ser Arg Ala Gly Pro Val Leu Trp Gly Leu Leu Ser Glu Ser Arg
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 Ser Arg Ser Pro Ile Leu Thr His Leu Leu Ser Leu Gly Ser Arg
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 <210> 251
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Ser Ser His Gly Ile Leu Trp Arg Leu Leu Ser Glu Gly Ser Arg
<210> 252
<211> 11
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<213> Human steroid receptor coactivator la
<400> 252
Lys Leu Val Gln Leu Leu Thr Thr Thr Ala Glu
                  5
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Ile Leu His Arg Leu Leu Gln Glu Gly Ser Pro
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 <213> Human steroid receptor coactivator la
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 Leu Leu Arg Tyr Leu Leu Asp Lys Asp Glu Lys
 <210> 255
 <211> 8
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 Leu Leu Gln Gln Leu Leu Thr Glu
 <210> 256
 <211>,11
 <213> Mouse cAMP-responsive element (CREB)-binding protein
 <400> 256
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Gln Leu Ser Glu Leu Leu Arg Gly Gly Ser Gly
                 5
<210> 257
<211> 11
<212> PRT
<213> Mouse cAMP-responsive element (CREB)-binding protein
Gln Leu Val Leu Leu Leu His Ala His Lys Cys
<210> 258
<211> 11
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<213> Mouse cAMP-responsive element (CREB)-binding protein
<400> 258
 Tyr Leu Glu Gly Leu Leu Met His Gln Ala Ala
                   5
 <210> 259
 <211> 11
 <212> PRT
 <213> Mouse cAMP-responsive element (CREB)-binding protein
 <400> 259
 Leu Leu Ala Ser Leu Leu Gln Ser Glu Ser Ser
 <210> 260
 <211> 11
 <212> PRT
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 <400> 260
 His Leu Lys Thr Leu Leu Lys Lys Ser Lys Val
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 <211> 11
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 <213> Human RIP140
  <400> 261
  Gln Leu Ala Leu Leu Ser Ser Glu Ala His
  <210> 262
  <211> 11
  <212> PRT
  <Z13> Human RIP140
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<400> 262
Leu Leu Leu His Leu Leu Lys Ser Gln Thr Ile
               5
<210> 263
<211> 11
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<213> Human RIP140
<400> 263
Leu Leu Gln Leu Leu Gly His Lys Asn Glu
               5
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<211> 11
<212> PRT
<213> Human RIP140
<400> 264
Val Leu Gln Leu Leu Ely Asn Pro Lys Gly
           5.
 <210> 265
 <211> 11
 <212> PRT
 <213> Human RIP140
 Leu Leu Ser Arg Leu Leu Arg Gln Asn Gln Asp
                 5
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 <210> 266
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 <212> PRT
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 Val Leu Lys Gln Leu Leu Ser Glu Asn Cys
                                     10
                  5
  ı
 <210> 267
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       .peptide
  <400> 267
  Ser Ser Asn His Gln Ser Arg Leu Ile Glu Leu Leu Ser Arg
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<210> 268
<211> 19
<212> PRT
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His Val Tyr Gln His Pro Leu Leu Leu Ser Leu Leu Ser Ser Glu His
<400> 268
Glu Ser Gly
<210> 269
 <211> 19
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 His Val Glu Met His Pro Leu Leu Met Gly Leu Leu Met Glu Ser Gln
                                      10
 Trp Gly Ala
 <210> 270
 <211> 19
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       peptide
  <400> 270
 Gln Glu Ala His Gly Pro Leu Leu Trp Asn Leu Leu Ser Arg Ser Asp
  Thr Asp Trp
  <210>.271
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<220>
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                                      10
Gln Ala Val
<210> 272
<211> 19
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 <400> 272
Leu Pro Tyr Glu Gly Ser Leu Leu Leu Lys Leu Leu Arg Ala Pro Val
 Glu Glu Val
 <210> 273
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 Ser Gly Trp Glu Asn Ser Ile Leu Tyr Ser Leu Leu Ser Asp Arg Val
                                                            15
                                       10
                    5
 Ser Leu Asp
  <210> 274
  <211> 19
  <212> PRT
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  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 274
  Ala His Gly Glu Ser Ser Leu Leu Ala Trp Leu Leu Ser Gly Glu Tyr
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Ser Ser Ala
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<210> 275
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<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Arbitrary peptide

<400> 275

Gly Val Phe Cys Asp Ser Ile Leu Cys Gln Leu Leu Ala His Asp Asn

Ala Arg Leu

<210> 276

<211> 19

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Arbitrary peptide

<400> 276

His His Asn Gly His Ser Ile Leu Tyr Gly Leu Leu Ala Gly Ser Asp

Ala Pro Ser

<210> 277

<211>.19

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: Arbitrary peptide

Leu Gly Glu Arg Ala Ser Leu Leu Asp Met Leu Leu Arg Gln Glu Asn 10

Pro Ala Trp

<210> 278

<211> 19

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<400> 278
Ser Gly Trp Asn Glu Ser Thr Leu Tyr Arg Leu Leu Gln Ala Asp Ala
                                      10
Phe Asp Val
<210> 279
<211> 19
<212> PRT
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 Pro Ser Gly Gly Ser Ser Val Leu Glu Tyr Leu Leu Thr His Asp Thr
                                       10
 Ser Ile Leu
 <210> 280
 <211> 19
 <212> PRT
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 Gly Ser Glu Pro Lys Ser Arg Leu Leu Glu Leu Leu Ser Ala Pro Val
                                       10
 Thr Asp Val
 <210> 281
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Glu Arg Glu

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His Pro Thr His Ser Ser Arg Leu Trp Glu Leu Leu Met Glu Ala Thr
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Pro Thr Met
<210> 282
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                                      10
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 Leu Leu Thr
 <210> 283
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 Trp Glu Glu His Ser Gln Met Leu Leu His Leu Leu Asp Thr Gly Glu
                                       10
                    5
 Ala Val Trp
  <210> 284
  <211> 19.
  <212> PRT
  <213> Artificial Sequence
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        peptide
  <400> 284
  Pro Val Gly Glu Pro Gly Leu Leu Trp Arg Leu Leu Ser Ala Pro Val
    1
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<210> 285
<211> 12
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Met Ser Trp Tyr Glu Phe Met Thr Glu Glu Ser Met
<210> 286
<211> 15
<212> PRT
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 <223> Description of Artificial Sequence: Arbitrary
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 <400> 286
 Ala Lys His Asp Leu Ser Trp Tyr Glu Phe Leu Gln Leu Pro Ile
                                       10
                   5
 <210> 287
 <211> 17
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       peptide
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 Ser Arg Leu Ser Trp Trp Glu Phe Leu Gly Ala Ser Asp Cys Gly Thr
                                        10
                    5
  Cys
  <210> 288
  <211> 11
  <212> PRT
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        peptide
  <400> 288
  Asp Leu Leu Ser Leu Lys Glu Phe Leu Ala Thr
                     5
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<210> 289
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<400> 289
Ser Ser Pro Asn Leu Leu Thr Leu Glu Glu Phe Leu Ser
                                      10
                   5
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 Lys Thr Tyr Ser Leu Tyr Glu Phe Leu Glu Leu
                   5
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 Met Ser Asn Arg Tyr Thr Ile Tyr Glu Phe Leu Asn Leu His Ser
                                                            15
                    5
  <210> 292
  <211> 10
  <212> PRT
  <213> Artificial Sequence
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  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 292
  Leu His Trp Trp Glu Val Leu Ala Glu Lys
                                        10
                     5
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  <210> 293
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<211> 17
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       peptide
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 Ser Ser Pro Gln Pro Leu Leu His Trp Trp Glu Met Met Thr Glu Pro
                                                            15
                                       10
                    5
  Pro
  <210> 294
  <211> 13
  <212> PRT
  <213> Artificial Sequence
  <220>
  <223> Description of Artificial Sequence: Arbitrary
        peptide
  <400> 294
  Ser Arg Ala Gly Glu Ser Val His Trp Trp Glu Val Leu
                                        10
                     5
  <210> 295
  <211> 15
  <212> PRT
  <213> Artificial Sequence
<220>
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   Arg Ala Gly Pro Ser Glu His Trp Trp Glu Tyr Ile Ala Thr Leu
     1
   <210> 296
   <211> 15
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   <220>
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   <400> 296
   Glu Met Ile Ser Trp His Gln Tyr Leu Leu Ser Ile Glu Asn Asn
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    <210> 297
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<211> 17
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 297
Ser Ser Leu Arg Trp Asp Glu Phe Leu Met Glu Leu Gly Gly Val
Ala
<210> 298
<211> 11
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      peptide
Val Pro Trp Trp Val Trp Leu Ala Glu Gly Asp
<210> 299
<211> 13
<212> PRT
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      peptide
Ser Arg Glu Ile Tyr Trp Trp Asp Trp Leu Thr Asp Thr
<210> 300
<211> 15
<212> PRT
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      peptide
<400> 300
Phe Gly Ser Asn Met Leu Asp Leu Pro Thr Phe Leu Asp Trp Leu
                   5
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<210> 301
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<211> 13
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<400> 301
Ser Arg Ile Thr Phe Trp Glu Leu Met Leu Glu Gly Gly
<210> 302
<211> 13
<212> PRT
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<400> 302
Ser Arg Thr Pro Tyr Glu Trp Leu Gly Tyr Trp Gly Ala
<210> 303
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 <400> 303
 Tyr Asp Met Cys Thr Trp Leu Glu Phe Leu Asp Gly Gly Glu Cys
                   5
   1
 <210> 304
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       peptide
 <400> 304
 Ser Pro Leu Cys Thr Trp Ala Glu Tyr Leu Met Glu Pro Ser Cys
                                       10
 <210> 305
  <211> 15
  <212> PRT
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      peptide
<400> 305
Thr Gln Trp Cys Thr Trp Ala Glu Phe Leu Ser Ser Thr Asp Cys
<210> 306
<211> 17
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 306
Ser Ser Asp Gly Cys Thr Trp Gln Glu Phe Leu Ala Gly His Gly Pro
                                      10
Cys
<210> 307
<211> 11
<212> PRT
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      peptide
Pro Phe Asn Asn Pro Pro Trp Met Trp Trp Ser
                   5
<210> 308
<211> 17
<212> PRT
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      peptide
Ser Ser Pro Thr Val His Glu Asn Leu Pro Pro Trp Leu Trp Trp Ser
                                      10
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Pro
<210> 309
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<211> 11
<212> PRT
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<220>
<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 309
Leu Ile His Val Pro Pro Trp Ala Trp Tyr Asp
                                      10
                  5
<210> 310
<211> 11
<212> PRT
<213> Artificial Sequence
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<223> Description of Artificial Sequence: Arbitrary
      peptide
<400> 310
Gly Phe Asp Val Pro Pro Trp Tyr Trp Asp Phe
                  5
<210> 311
<211> 17
<212> PRT
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      peptide
<400> 311
Tyr Ser Gln Val Phe Gly Asp Ala Pro Val Trp Ala Trp Tyr Ser Ser
Arg
<210> 312
<211> 12
<212> PRT
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 <400> 312
 Trp Thr Pro Ser Asp Trp Gln Trp Trp Arg Ser Lys
 <210> 313
<211> 17
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<220>
<223> Description of Artificial Sequence: Arbitrary
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<400> 313
Ser Ser His Trp Ser Ser Asp Ser Ile Phe Pro Gly Phe Trp Tyr Ser
                                     10
                 5
Cly
<210> 314
<211> 13
<212> PRT
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<223> Description of Artificial Sequence: Arbitrary
     peptide
<400> 314
Ser Arg Gly Gly Val Asp Leu Asp Ile Gly Asn Ser Ala
<210> 315
<211> 11
<212> PRT
<213> Artificial Sequence
 <223> Description of Artificial Sequence: Arbitrary
      peptide
 <400> 315
 Glu Gly Glu Asp Val Arg Thr Arg Ile Ala Asn
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